	Application No.	Applicant(s)
Notice of Allowability	10/801,952	MIYAZAWA, IKUYA
	Examiner	Art Unit
	Scott Geyer	2812
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to an amendment filed on November 2, 2006.		
2. The allowed claim(s) is/are <u>1-7,34 and 35</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> </ul>		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ul> <li>5.   CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> <li>(a)   including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> </ul>		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No./Mail Date</li> </ol>	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 091206	7. 🛛 Examiner's Amendr	
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
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## **DETAILED ACTION**

## Election/Restrictions

This application is in condition for allowance except for the presence of claims 8-33 directed to inventions non-elected without traverse. Accordingly, claims 8-33 have been cancelled.

Applicant note: due to the allowability of claim 1 as detailed below, previously withdrawn claims 6 and 7 are hereby rejoined and also allowed.

## Information Disclosure Statement

The references cited within the IDS document submitted on September 12, 2006 have been considered.

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Cancel claims 8-33.

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(Applicant note: independent method claim 8 does not recite the allowable features of claim 1. Independent claims 13 and 20 are device claims. Claims 11, 12, 26 and 30 are product-by-process claims. Although dependent upon allowed claim 1, the claims do not necessarily contain the distinct allowable features of claim 1 since the resulting product does not necessarily require the method steps to arrive at the product.)

# Allowable Subject Matter

Claims 1-7, 34 and 35 are allowed.

The following is an examiner's statement of reasons for allowance. The prior art of record and to the examiner's knowledge does not teach or render obvious, at least to the skilled artisan, the instant invention regarding a method of manufacturing a semiconductor device having electrodes which penetrate the semiconductor substrate, particularly characterized by the cross-sectional area of the distal end portion of the electrode being equal to or smaller than that of the cross-sectional area of the electrode at the active surface of the substrate, as recited in independent claim 1. Claims 2-7, 34 and 35 are dependent upon claim 1. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

The following references are cited as being particularly relevant to the applicant's invention: Yamaguchi (6,916,725) and Miyazawa (7,029,937).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Gever whose telephone number is (571) 272-1958. The examiner can normally be reached on weekdays, between 10:00am -6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SCOTT B. GEYER

SBG December 15, 2006 AB. \$ 12/15/06